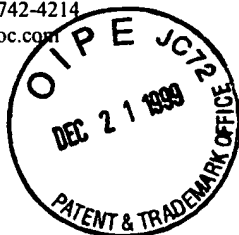


LAHIVE
&
COCKFIELD
L L P

COUNSELLORS AT LAW
28 STATE STREET
BOSTON, MASSACHUSETTS 02109-1784
TELEPHONE (617) 227-7400
FAX (617) 742-4214
lc@lahcoc.com



JOHN A. LAHIVE, JR. (1928-1997)
THOMAS V. SMURZYNSKI
RALPH A. LOREN
GIULIO A. DeCONTI, JR.
ANN LAMPORT HAMMITTE
ELIZABETH A. HANLEY
AMY BAKER MANDRAGOURAS
ANTHONY A. LAURENTANO
KEVIN J. CANNING
JANE E. REMILLARD
FAUSTINO A. LICHAUICO
DAVID A. LANE, JR.
JEANNE M. DIGIORGIO
DEBRA J. MILASINCIC, Ph.D.
NICHOLAS P. TRIANO, III

WID GP1646 BoxSQ #5 1/17R
TIMOTHY J. D...
WILLIAM D. De...
CATHERINE J. KARA, Ph.D.

SENIOR COUNSEL
W. HUGO LIEPMANN
JAMES E. COCKFIELD

OF COUNSEL
JEREMIAH LYNCH
WILLIAM A. SCOFIELD, JR.
PETER C. LAURO *
JOHN L. WELCH
DeANN FORAN SMITH**

* Admitted in NY only
** Admitted in MI only

PATENT AGENTS
CHI SUK KIM
MEGAN E. WILLIAMS, Ph.D.
REZA MOLLAAGHABABA, Ph.D.
DAVID J. RIKKERS

TECHNICAL SPECIALISTS
MARIA LACCOTRIPE ZACHARAKIS, Ph.D.
CYNTHIA M. SOROOS
PETER W. DINI, Ph.D.
JENNIFER L. ELLIOTT, Ph.D.
LAUREN C. FOSTER, D.Sc.
EUIHOON LEE
ERICK B. BERGLUND, Ph.D.

RECEIVED

DEC 27 1999

TECH CENTER 1600/2900

December 17, 1999

Box Sequence
Assistant Commissioner for Patents
Washington, DC 20231

Re: U.S. Patent Application Serial No.: 09/378,046
*CELLS HAVING AMPLIFIED SIGNAL TRANSDUCTION PATHWAY
RESPONSES AND USES THEREFOR*
Inventors: John Manfredi *et al.*
Filed: August 20, 1999
Attorney Docket No.: CPI-088

Dear Sirs:

I enclose herewith for filing in the above-identified application the following:

1. Response to Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures;
2. Transmittal Letter for Diskette of Sequence Listing;
3. Diskette Containing the Computer Readable Form of the Corrected Sequence Listing;
4. A hard copy of Substitute Specification pages 1-4, following the Abstract, which Contain the Corrected Sequence Listing;
5. A copy of the Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures; and
6. A return postcard.

Please charge any necessary fees to our Deposit Account No. 12-0080. The undersigned requests any extensions of time necessary to respond. A duplicate of this sheet is enclosed.

Certificate of First Class Mailing

I hereby certify that this paper or fee is being deposited with the United States Postal Service as First Class Mail on the date indicated below and is addressed to Assistant Commissioner for Patents, Box Sequence, Washington, DC 20231 on:

December 17, 1999

Date

Peter C. Lauro, Reg. No. 32,360

Respectfully submitted,

Peter C. Lauro, Esq.

Reg. No. 32,360

Attorney for Applicants

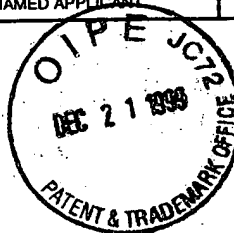


UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARK
Washington, D.C. 20231

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO./TITLE
--------------------	---------------------	-----------------------	---------------------------

09/378,046 08/20/99 MANFREDI



CFI-088

000959
LAHIVE & COCKFIELD
28 STATE STREET
BOSTON MA 02109

0212/0920

NOT ASSIGNED

DATE MAILED:

1646

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application fails to comply with the requirements of 37 CFR 1.821 - 1.825.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. The content of the computer readable form, however, does not comply with the requirements of 37 CFR 1.822 and/or 1.832, as indicated on the attached marked-up copy of the "Raw Sequence Listing."
- ☒ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
- ☐ 7. OTHER: _____

APPLICANT MUST PROVIDE:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing."
- ☐ An initial or substitute paper copy of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- ☐ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).

FOR QUESTIONS REGARDING COMPLIANCE WITH THESE REQUIREMENTS, PLEASE CONTACT:

- ☐ For Rules Interpretation, call (703) 308-1123.
- ☒ For CRF submission help, call (703) 308-4212.
- ☐ For PatentIn software help, call (703) 308-6856.